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ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF ENFORCEMENT
NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
BUILDING 53, BOX 25227, DENVER FEDERAL CENTER
DENVER, COLORADO 80225

DATE: April 11, 1991

MEMORANDUM

SUBJECT: Analytical Results for Samples from the A-Line Freight Company Investigation, Philadelphia, PA - Case 86Q

FROM: John W. Fowler, Unit Chief *John W. Fowler*
Analytical Investigation Section

TO: Robert A. Boodey, Agent-in-Charge
Office of Criminal Investigations, Philadelphia

Three liquid samples (Drum 1, 3, and 4) and a sample of a white powder (Drum 2) were received from the A-Line Freight trailers in Philadelphia, PA, on April 1, 1991. At your request, the liquid samples were analyzed for the RCRA hazardous waste characteristic of ignitability. The white powder was examined to determine its composition.

Two of the three liquid samples exhibited the RCRA characteristic of ignitability due to flashpoints below 140 degrees Fahrenheit.

Drum Number	Water Content	Flashpoint
1	3.0%	< 140 F
3	< 0.1	118
4	< 0.1	81

The white powder from the drum 2 appears to be a maleic anhydride polymer or mixture. No maleic anhydride polymers are listed as toxic constituents under RCRA.

Flashpoints were determined on portions of drum samples 1 and 3 with a Setaflash Closed Cup Tester, using the test method specified in ASTM Standard D-3278-78. The flashpoint of a portion of drum sample 4 was determined with a Pensky-Martins Closed Cup Tester, using the test method specified in ASTM Standard D-93-79 or D-93-80. The Pensky-Martins tester is used to determine the flashpoint of viscous liquids. The water content of the three drum samples was determined by Karl Fischer coulometric titration.

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Portions of the white powder from drum sample 2 were examined by x-ray fluorescence spectroscopy and Fourier transform infrared spectroscopy.

If there are any questions about the analysis results or you would like additional analyses performed, please call John Fowler or K. Eric Nottingham at FTS 776-5132 or (303) 236-5132.

cc: J. Lowry, NEIC
K. Nottingham, NEIC
C. Aschwanden, NEIC

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